

MUELLER-HINTON Agar acc. to NCCLS

For the determination of antibiotic susceptibility including sulfonamides by the disc-agar diffusion method.



*in vitro diagnosticum –
For professional use only*



Principle

Microbiological method

Mode of Action

The medium complies with the requirement of the National Committee for Clinical Laboratory Standards (NCCLS) and is manufactured to contain low concentrations of thymine and thymidine as well as appropriate levels of calcium and magnesium ions.

Thymine and thymidine concentrations are determined by the disc diffusion procedure with trimethoprim and sulfamethoxazole and *Enterococcus faecalis* ATCC 29212.

Calcium and/or magnesium concentrations are controlled by obtaining the correct zone diameters with aminoglycoside antibiotics and *Pseudomonas aeruginosa* ATCC 27853.

Typical Composition (g/litre)

Meat infusion 2.0; casein hydrolysate 17.5; starch 1.5; agar-agar 17.0.

Preparation and Storage

Usable up to the expiry date when stored dry and tightly closed at +15 to +25° C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25° C.

Suspend 38 g in 1 litre of demin. water and autoclave (15 min at 121 °C). If required, cool to 45-50 °C and add 5-10 % defibrinated blood, pour plates.

pH: 7.3 ± 0.2 at 25 °C.

Without blood, the plates are clear to opalescent and brownish-yellow.

Quality control

Test strains	Growth	Zone diameters within specifications
<i>Escherichia coli</i> ATCC 25922	good / very good	+
<i>Staphylococcus aureus</i> ATCC 25923	good / very good	+
<i>Pseudomonas aeruginosa</i> ATCC 27853	good / very good	+
<i>Enterococcus faecalis</i> ATCC 29212	good / very good	+

See also *General Instruction of Use*
Warnings and precautions see *ChemDAT®*
(www.chemdat.info)

Specimen

e.g. Isolated bacteria from urine.

Clinical specimen collection, handling and processing, see general instructions of use.

Experimental Procedure

Carry out the sensitivity test acc. to NCCLS.

Incubation for 24 h at 35 °C aerobically.

Literature

National Committee for Clinical Laboratory Standards. Approved Standard. Performance standards for antimicrobial disc susceptibility tests, 5th ed. National Committee for Clinical Laboratory Standards, Villanova, Pa. (1993).

Ordering Information

Product	Merck Cat. No.	Pack size
MUELLER-HINTON agar acc. to NCCLS	1.05435.0500	500 g